1/5

Figure 1

Proinsulin	C-peptide
Ins_Human	EAEDLQVGQVELGOGPGAGSLQPLALEGSLQ (SEQ ID NO. 1)
Ins Pantr (Chimpanzee)	EAEDLQVGQVELGGGPGAGSLQPLALEGSLQ (SEQ ID NO. 9)
Ins_Aotr (Night monkey)	EAEDLQVGQVELGGGSITGSLPPLEGPMQ (SEQ ID NO. 10)
Ins Macpa (Crabeatingmaoaque)	EAEDPQVGQVELCSGGPGAGSLQPLALEJSLQ (SEQ ID NO. 11)
Ins_Cerab (Green monkey)	EAEDPQVGQVELGGGPGAGSLQPLALEGSLQ (SEQ ID NO. 12)
Ins Pig	EAENPQAGAVELGGGLGGLQALALEGPPQ (SEQ ID NO. 13)
Ins_Bovern	EVEGPQVGALELAGGPGAGGLEGPPQ (SEQ ID NO. 14)
Ins_Horse	EAEDPQVGEVELGGGPGLGGLQPLALAGPQQ (SEQ ID NO. 15)
Ins sheep	EVEGPQVGALELAGGPGAGGLEGPPQ (SEQ ID NO. 16)
Ins Canpa (dog)	EVEDLQVRDVELAGAPGEGGLQPLALEGALQ (SEQ ID NO. 17)
Ins_Rabbit	EVE LQVGQAELGOGPGAGGLQPSALELALQ (SEQ ID NO. 18)
Ins 1_Rat	EVEDPQYPQLEGGPEAGDLQTLALEVARQ (SEQ ID NO. 19)
Ins2_Rat	EVEDPQVAQLELGGGPGAGDLQTLALEVARQ (SEQ ID NO. 20)
Ins Rodsp (rodent sp)	EVEDPQVGQVELGAGPGAGSEQTLALEVARQ (SEQ ID NO. 21)
Insi_mouse	EVEDPQVEQLELGGSPGDLQTLALEVARQ (SEQ ID NO. 22)
Ins2_Mouse	EVEDPQVAQLELGGGPGAGDLQTLALEVAQQ (SEQ ID NO. 23)
Ins Caypo (guinea pig)	ELEDPQYEQTELGMGLGAGGLQPLALEMALQ (SEQ ID NO. 24)

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Ins_Chick (chicken)

Ins_Crib GYEDPQVAQLELGOGPGADDLQTLALEVAQQ (SEQ ID NO. 25)

Ins_Psaob GYDDPQMPQLELGGSPGAGDLRALALEVARQ (SEQ ID NO. 26)

Ins_Ocide ELEDLQVEQAELGLEAGGLQPSALEMILQ (SEQ ID NO. 27)

Q62543 (western wild mouse) GGPGAGDLQTLALEVAQQ (SEQ ID NO. 28)

Q62542 (western wild mouse) GSPGDLQTLALEVARQ (SEQ ID NO. 29)

Ins_Anap1 (domestic duck) DVEQPLVNGPLKGEVGELPPQHEEYQXX (SEQ ID NO. 30)

DVEQPLYSSPLKGEAGYLPPQQEEYEKV (SEQ ID NO. 31)

Figure 2

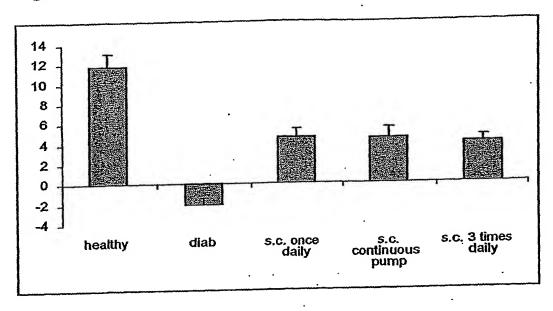


Figure 3

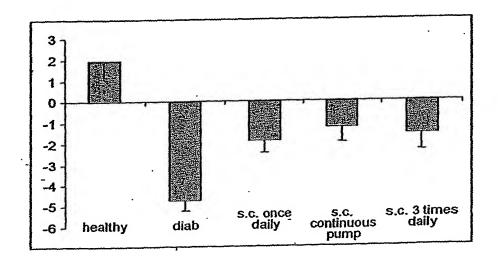


Figure 4

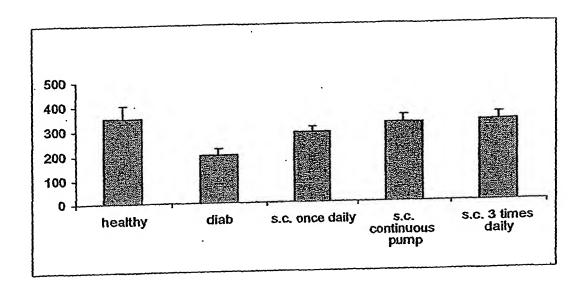


Figure 5

Teased fiber assessment of nodal and axonal morphometric changes in healthy controls and diabetic rats receiving .C-peptide treatment for 8 weeks with different administration regimens

Frequency of fibers (%)	Mr. Dielecte	Diebetie	-	C-peptide Treatment	ent
showing	Non-Diabenc Controls	untreated	Once Daily	Continuous infusion	Three times daily
Paranodal swelling	1.03 ± 0.16	7.60 ± 0.37	2.49 ± 0.15*	1.53 ± 0.18	1.78 ± 0.16
Paranodal demyelination	.80.0 ± 0.0	2.22 ± 0.12	1.01 ± 0.13*	0.24 ± 0.10	0.45 ±0.16
Excessive wrinkling	0.68 ± 0.07	3.63 ± 0.35	$0.57 \pm 0.14*$	0.55 ± 0.11	0.58 ± 0.10
Axonal degeneration	0.30 ± 0.17	1.84 ± 0.39	0.43 ± 0.16 *	0.30 ± 0.10	0.38 ± 0.19

Mean values ± SE are given Significantly lower than the corresponding value for untreated diabetic animals, PC 0.01